No 39. Issued June, 1929.

# CARADOC and SEVERN VALLEY FIELD CLUB.

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# RECORD OF BARE FACTS,
## FOR THE YEAR 1928.

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*A List of the More Noteworthy Observations made by Members of the Caradoc and Severn Valley Field Club and others.*

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1929.

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The names printed in italics after occurrences recorded are those of the observers.

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The names of Meteorological observers are given in the first table under that head.

# BOTANY.

## (*a*) PHANEROGAMIA, or FLOWERING PLANTS.

N.B.—Roman Numerals refer to the XIII Botanical Sub-divisions of the County, as portrayed upon the Caradoc Special Map.

An Asterisk (*) is appended to a New County Record, *i.e.* one that has not appeared previously in "Bare Facts," even should its occurrence have been published as Salopian in other periodicals.

* * * *

We fear the accompanying list exhibits but a somewhat scanty record for the present session, but for some little time surmise has developed into certainty, that the central area of this large and entirely inland County, having been so well organized and well worked, to begin with, by that most accurate and complete Flora (each species being fully described, of the late Rev. W. A. Leighton, 1840) has now, owing to the more critical genera having been more closely studied, arrived at a greater degree of perfection, though a good deal remains to be done, more especially in the North-Eastern (Woore) district (XI.), and in that of Cleobury Mortimer, further South (XII.).

Many of the old-established localities have been revisited, but a great deal is still to be accomplished in this particular. Aliens have also appeared, and are continuing to appear, some but transitorily, others remaining and increasing, *e.g.* the fine **Impatiens Roylii,** *Walp.*, mentioned in last year's Report.

At the present time it seems that the N.E. district XI. (Woore) requires most exploration, and especially District XII., to the S. East (Cleobury Mortimer area), for (VI.) Clun is now getting fairly well worked, as also are I., II., III. Districts, of which Oswestry is the central town. We are glad the Offa Field Club is especially taking that region in hand, as well as part of Montgomery, since, with regard to this last, Mr. Hewitt C. Watson, in his *Cybale Britannica* mentioned that that County was one of the very few for which he had received absolutely no records.

The researches of Miss E. R. Lloyd are much to be commended; she has forwarded a list again this year, her headquarters being the Gobowen districts (I. II. III.).

Mr. George Potts is as active, and, indeed, more so than ever in the rich Benthall Edge and Broseley neighbourhood (XII—XIII.) and if an equal enthusiast could be found for (XI.) we should, I feel sure, obtain soon some most satisfactory results.

In the meantime we must congratulate ourselves that so much has been accomplished by so few, and it would be a further great assistance if some, especially our junior and more active members, would incline themselves to what they would soon find to be a very pleasing task.

J. COSMO MELVILL.

**Ranunculus arvensis,** *L.*

IV. In Mr. J. W. Heath's garden, Mountfields, Shrewsbury. A very fine, tall, well grown plant, evidently adventitious.

**Trollius europoeus,** *L.*

III. In a field at Wern Mill, Weston-Rhyn. *Miss E. R. Lloyd.* According to Leighton, this sub-alpine plant is more frequent in the Western district of the county, *e.g.* Oswestry.

**Helleborus foetidus,** *L.*

XII. Farley Dingle (2½ m. N.E. of Wenlock). Four plants only. *Potts.* See Leighton pp. 253, 529., where Faerley is mentioned as a locality. This is evidently now the place called Farley.

**Nuphar pumila** *D.C.*

II. Mr. Arthur Bennett writes as follows :—

"Under the name **N. minima** this plant was published in "English Botany" Plate 2292 (June 1st, 1811). First found by Mr. Borrer in Scotland, it was not till 1854 that it was recorded from Ellesmere, consequently the Rev. W. A. Leighton did not know of it when he compiled the County Flora in 1841. Mr. J. A. Cox was the Recorder. Mr. Hewitt C. Watson in 1870 (Comp. Cyb. Brit. p. 88) remarks "There seems some uncertainty that this species is British. To solve this doubt specimens were forwarded to Dr. Caspary, the then chief authority for the genus. He replied (Sept. 14, 1884) "These are **Nuphar pumila** undoubtedly, although the stigmatic disk between the rays appears even, and not furrowed." These examples were collected from a new station not far away.

**Hesperis matronalis,** *L.*

XI. Moreton, near the church-yard. Questionably native there. It is still found near the Rea Brook at (IV.) Meole Brace, and also comes up year after year in the Meole Hall grounds. Although I have seen it apparently wild in several stations in England, especially in the Northern and North Midland counties, its appearance is nearly always open to suspicion as being adventitious. *Melvill.*

***Viola Lloydii Jordan.**

XIII. Near Ironbridge, coll. Beckwith determ. *Dr. Eric Drabble.*

**Spergula arvensis,** *L.*

*b.* **sativa,** *Bann.*

VII. Nr. Shawbury, *H. E. Forrest,* 10 June, 1928.

Exceedingly common as an arable weed in sandy soil, but apparently not very frequent in this county, or else much overlooked. Leighton did not find it rare (p. 199).

**Hypericum Androsæmum,** *L.*

XII. Very abundant and increasing near Wyke, 2½ m. E. of Wenlock. Previously recorded some 25 years ago from this same place. *G. Potts.* Although considered uncommon by Rev. W. A. Leighton (Flora p. 371) many localities are given for it.

**Rubus caesius,** *L. forma.*

VIII. An interesting variety of this Dewberry was found near Tickwood by *Mr. Potts.* It is more gracefully slender than is ordinary, and exhibiting berries with remarkably few drupes. I cannot yet find that it has been given any varietal name. *Melvill.*

**Rosa rubiginosa,** *L.*=**Eglanteria,** *Woods.*

VIII. Tickwood Hall grounds, near Benthall Edge. *G. Potts.* First noticed by him twenty-five years ago in this locality. In Leighton's Flora (p. 217), it is considered rare, and Buildwas with the Ludlow neighbourhood alone given as its habitats. It is very likely planted here and there, being a popular shrub owing to its delicious scent. *Melvill.*

**Geranium.**

Miss Lloyd informs me that eight species of this genus are found in Stations 1, 2 and 3.

viz. (*a*) **G. columbinum,** *L.* Candy Lane.
(*b*) **G. dissectum,** *L.* Rhosagadfa, near Gobowen.
(*c*) **G. lucidum,** *L.* Candy Lane.
(*d*) **G. molle,** *L.* Common.
(*e*) **G. Robertianum,** *L* type, frequent, but unusually white flowered variety occurs.
(*f*) **G. phæum,** *L.* Near Preeshille, Gobowen, said by the late Rev. O. Mosley Fielden to have been noticed at this spot for over forty years.
(*g*) **G. prateuse,** *L.* Near Llanforda Hall, Oswestry.
(*h*) **G. pusillum,** *L.* Henlle Lane, near Gobowen.

N.B.—These are all more or less generally distributed and probably **G. pyrenaicum** *L.* common in lime more Southern parts of the County, will likewise ultimately be found to occur.

It is also likely that **G. sylvaticum** *L.*, so common in mountainous places, may also be discovered: it would be a good find.

The Spanish species **G. Endressi,** discovered by myself near Craven Arms, is now found in two counties besides Shropshire. *Melvill.*

**Erodium cicutarium,** *L'Hern.*

II. Rednal. Most probably var. **pimpinellifolium.** *Miss Lloyd.*

**Hydrocotyle vulgaris,** *L.*

II. In a watery ditch near Queen's Head. *Miss Lloyd.*

**Œnanthe fistulosa,** *L.*
IX. Near Wistanstow.
Also growing plentifully in ditch, side of lane leading to the Red Lion Inn, Horderley. *G. Potts.*
Leighton does not consider it infrequent, generally speaking, in Salop (p. 128).

**Dipsacus pilosus,** *L.*
XIII. Madeley Wood. *G. Potts.*
I have found this more abundant in Shropshire than in any other county I have collected in. *Melvill.*

**Scabiosa Columbaria,** *L.*
III. Llynclys Hill. A variety with remarkably narrow tenuisect cauline leaves. *Miss Lloyd.*

**Viburnum opulus.** *L.*
I. Fernhill Lane, Gobowen. *Miss Lloyd.*

**Campanula latifolia,** *L.*
XIII. Caughley Woods. Several plants occurring with unusually pale blue flowers. *Potts.*
I have also this year transplanted into my garden a very handsome pure white flowered variety. *Melvill.*

**Inula Helenium,** *L.*
I. In field near Bronygarth about 50 yards from the R. Cinniog. A large clump of these handsome plants. known generally as the Elecampane. *Miss Lloyd.*

**Chrysanthemum segetum,** *L.*
II. In cornfield at Rednal, only once seen, but plentiful, though Mr. Diamond's list mentions it at Halston, not far distant from Rednal. *Miss Lloyd.*

**Achillea Ptarmica,** *L.*
I. Middle Hengoed, but uncommon. *Miss Lloyd.*
This plant, 'flore pleno,' becomes quite a handsome species, popular in gardens, owing to its long and unchanged flowering period. It thrives especially in and near smoky towns, and is valuable on that account. Locally called 'Sneezewort,' but why we are ignorant. *Melvill.*

**Linaria repens,** *Hill.*
X. The very elegant and conspicuous white flowered variety, already mentioned in "Bare Facts," as discovered at Presthope by *Mr. George Potts*, is much extending, and becoming a very handsome permanent addition to the Flora.

**Veronica officinalis,** *L.*
III. A remarkably dwarfed variety from the Breidden Hills. As it has been found out lately that part of this range is in Salop and part in Montgomery, I include this here. *Melvill.*

**Veronica hybrida,** *L.*

III. A variety with pink flowers. *Dr. Maurice Gepp.* Very handsome, and uncommon. Breidden Hills. Likewise a pure white variety. *Melvill.*

**Vinca minor,** *L.*

I. The lesser Periwinkle is to be found in a lane near Rock Farm, S. Martins. *Miss Lloyd.*
Considered rare by Leighton (p. 109) though he deems it 'perfectly wild' in certain spots.

**Anchusa sempervirens,** *L.*

I., III. This Alkanet seems very plentiful in the Oswestry and Gobowen district. "I have seen it at Prees-gwene, Sweeney, Rednal, Queen's Head and Candy Lane." *Miss Lloyd.*

**Hottonia palustris,** *L.*

II. Ditch near Queen's Head, with other aquatic species, as **Hydrocotyle, Alisma** and **Sparganium.** *Miss Lloyd.*

**Lamium maculatum,** *L.*

III. Sweeney, but outside a garden wall. *Miss Lloyd.* This seems to have disappeared lately from the station in District IV. formerly given. *Melvill.*

**Viscum album,** *L.*

XIII. The Mistletoe is found by *Mr. Potts* on (*a*) **Populus nigra** at Coalport. Likewise (*b*) Tickwood, Ironbridge, first recorded from thence about 25 years ago. I may mention that Leighton (p. 491) gives a very exhaustive account of this parasite, well worth attention. He mentions it as occurring on Hawthorn, Hazel, American Poplar, Mountain Ash, Crab Apple, Wild Pear, and Larch.

**Carpinus Betulus,** *L.* The Hornbeam.

I. Near Gobowen, rarely. *Miss Lloyd.*
Leighton (Flora, p. 478) evidently considers this rare in Salop, only one locality being mentioned, viz.: The Wrekin, collected by Mr. F. Dickinson. I have certainly not yet noticed it in the county. *Melvill.*

**Daphne Mezereum,** *L.*

XII. Farley Dingle, near Much Wenlock, about 2½ miles N.E. of this town. *George Potts* and the late *W. B. Allen.* Noticed several years ago, but I cannot find it has been previously recorded from this place. Three stunted plants then noticed.
In Leighton's Flora it is recorded as having occurred in woods at Clee Hill, found by Miss MacGhie.
The fellow-species, *D.* **Laureola,** *L.*, with its smooth and polished leaves, and green fragrant flowers, is more generally distributed in the County, and particularly affects a limestone soil. It is especially found in the Wenlock district, on magnesium lime soil. *Melvill.*

**Orchis mascula,** *L.*

XII. A pure white variety gathered this season on Benthall Edge, Broseley. *G. Potts.* Also in the grounds at Tickwood, Ironbridge.

**Orchis praetermissa,** *Druce.*

XIII. Marnwood and Buildwas. Probably much common than true **latifolia**, with which till lately it has been confounded. *Melvill* and *Potts.*

**Orchis (Andeomptis) pyramidalis,** *L.*

VIII. White-flowered varieties occur not infrequently on Benthall Edge, intermingled with the typical form. I do not consider this albinism as common in other places where this species occurs numerously, *e.g.* Folkestone, and Dover, and other calcareous districts in the South of England. *Melvill.*

**Ornithogalum umbellatum,** *L.*

VII. Near Shawbury, 10 June, 1928. Coll. *H. E. Forrest.* It seems locally, but fairly generally distributed in the county, though Leighton (p. 147) considers it scarcely wild, it really seems to me it may be so deemed. This season (1928) I found it increasing in this neighbourhood (district 4). *Melvill.*

**Narcissus biflorus,** *Curt.*

XII. Monkhopton, *G. Potts.* Has been known in this locality for over 35 years.
Probably only naturalized, but is mentioned by Leighton, 1841, as occurring near Ludlow and at Eaton Mascott (Station VIII.).

**Narcissus Pseudo-Narcissus,** *L.*

XII. With the former at Monkhopton. This species is generally found quite native, and is not infrequent throughout Salop. In many localities, *vide* Leighton p. 146.

**Galanthus nivalis,** *L.*

XII. Flourishing at Cuckoos'-Nest in the parish of Eaton-under-Heywood. Naturalized, Willey Park, June, 1928. *G. Potts.*

**Botrychium Lunaria,** *Sw.*

VIII. XII. Posenhall and Benthall, known there for over 25 years. (*Potts*).

# ENTOMOLOGY.

There was not much of importance reported during the season in the way of Lepidoptera. Mr. Geo. Potts has, as usual, sent a list of observations on the Benthall district. **Urticae,** the Small Tortoiseshell, was fairly common on Kingsland, but **Atalanta,** the Red Admiral, was very scarce. The larvae of **Meticulosa** (Angle shades) were reported as very numerous and destructive to chrysanthemums. There is, however, on every interesting record. **Ellopia prosapiaria ab. prasinaria** (Barred Red-Green Var.) taken by Miss Hughes, June 17, 1928, Middletown Hill, resting in gorse-bush.

South. Series II., p. 269, remarked upon this as "a form not uncommon in Germany and Switzerland and other parts of the Continent, but which is very rare in Britain, and has been recorded from Kent and Suffolk."

## COLEOPTERA.

Mr. J. R. le B. Tomlin, M.A., F.E.S., spent a few days collecting at Benthall, Wenlock and Caughley, during June, and recorded no fewer than 48 species new to the County. These, as given in the records, with one found by Mr. Potts, bring the total for the county to 1,093 species.

This is quite a valuable contribution, and we are greatly indebted to Mr. Tomlin.

## DIPTERA.

Mr. Wallace Pugh has sent a further list of 129 Diptera taken in the county. He says this brings the total number recorded (including Mr. Bury's list) to 722 species, which is not a very large number out of about 4,000 British species, but identification is the chief difficulty. I have, he says, as before, for the sake of completeness, included a few records published elsewhere by Mr. F. W. Edwards. I also have to thank again Mr. H. Britten, F.E.S., of Manchester Museum, for help in identification of some of the species, especially **Empidae.**

He adds that he has been able to confirm by personal observation, 165 out of the 235 species in Mr. Bury's preliminary list. I think we are greatly indebted to Mr. Pugh for such a splendid contribution.

W. S. INGRAMS.

## LEPIDOPTERA.

**G. Rhamni** (Brimstone). Mar. 4. Dowles. *J. Steele Elliott.*
**V. C-album** (Comma). Apr. 26. *Elliott.*
Kingsland. Early April. *Ingrams.*
Madeley Wood. July 25.
**V. Cardui** (Painted Lady). May 28. Dowles. *Elliott.*
One by Linley Station, June 9.
One Presthope, June 11.
One Benthall, July 14.
Two Presthope, Sept. 4.
One Benthall, Sept. 10.
One Aldenham, Sept. 15.

**P. Megaera** (Wall). Dowles, May 20. *Elliott.*
Common along the high ground between Wenlock and Presthope. Sept. 4.
**P. Egeria** (Speckled Wood). Wenlock Edge (Sept.). Caughley Woods (July), fairly plentiful. Plentiful, Benthall Edge, all summer.
**E. Tithonus** (Gatekeeper). Sporet Lane (under the Wrekin), Aug. 4.
**C. Elpenor** ((Elephant Hawk Moth). Two full-fed larvae, Benthall Edge, Aug. 16.
**Ellopia prosapiaria abprasinaria** (Barred-Red, Green var.). Taken June 17, Middletown Hill, resting in gorse-bush (*Miss Hughes*).
**S. Dubitata** (Tissue Moth). Benthall, Aug. 2.
**C. Silacetata** (Small Phœnix). Benthall, Sept. 9.
**C. Prunata** (Phœnix). Benthall, Aug. 29.
**T. Derasa** (Buff Arches). Common. Benthall. July 26.
**H. Micacea** (Rosy Rustic). Benthall. Sept.
**M. Strigilis** (Marbled Minor). Benthall. June 30.
**T. Interjecta** (Least Yellow Underwing). Benthall, Sept.
**E. Lucipara** (Small arches). Benthall. End of June.
**G. Libatrix** (Herald). In house to April 26.
All reported by *Mr. Geo. Potts*, Broseley, except those noted.

# COLEOPTERA.

Recorded by Mr. J. R. le B. Tomlin.

**Harpalus rectangulus, Thoms.** Presthope, one specimen.

*Correction.*—The specimen taken at Wenlock Edge, by Mr. Potts, and recorded in 1927 "Bare Facts" as Harpalus rupicola, Stm., is now found to be **Harpalus rectangulus.**

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|---|---|
| **Haliplus immaculatus, Gerh.** | Brick-field pool, Willey. |
| **Sphaeridium quadrimaculatum, Msh.** | Caughley. |
| **Cercyon lugubris, Pk.** | Benthall Edge, by pool. |
| **Oxypoda alternans, Gr.** | Benthall, fungi. |
| **Ocyusea maura, Er.** | Benthall. |
| **Chilopora longitarsus, Er.** | Benthall Edge, by pool. |
| **Astilbus canaliculatus, F.** | Wenlock, several. |
| **Homalota aequata, Er.** | Caughley, under bark. Benthall, under elm bark. |
| **Homalota atricolor, Shp.** | Wenlock. |
| **Homalota longicornis, Gr.** | Caughley. |
| **Gyrophaena gentilis, Er.** | Benthall, in fungus. |
| **„ strictula, Er.** | „ „ |
| **Oligota atomaria, Er.** | Wenlock. |
| **Mycetoporus lepidus, Gr.** | Caughley. |
| **Staphylinus pubescens, De G.** | Wenlock Edge. |
| **Ocypus brunnipes, F.** | Wenlock Edge, under stone. |
| **Philonthus albipes, Gr.** | Benthall. |
| **„ concinnus, Gr.** | Benthall Edge. |
| **„ varians, Pk.** | Benthall and Wenlock. |
| **Stenus providus, Er.** | Caughley. |
| **„ buphthalmus, Gr.** | Benthall Edge. |
| **„ crassus, Steph.** | Benthall Edge. |
| **Trogophlaeus rivularis, Mots.** | Benthall, pool. |
| **Homalium concinnum, Marsh.** | Wenlock, common in old hay. |
| **Anistoma ovalis, Schm.** | Wenlock Edge, two by sweeping |
| **Scydmaenus collaris, Mull.** | Wenlock. |
| **Meligethes lumbaris, Stm.** | Benthall, Caughley and Wenlock Edge. |

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|---|---|
| **Cryptophagus cellaris, Scop.** | Benthall, in house. |
| **Malthodes minimus, L.** | |
| **and var. marginicollis, Sch.** | Benthall Edge, and Wenlock. |
| **,, atomus, Th.** | Wenlock Edge, one. |
| **Cis alni, Gyll.** | Benthall in Jew's ear fungus on Elder, not uncommon |
| **Cis festivus, Pz.** | Benthall, in fungus. |
| **Chrysomela staphylea, L.** | Benthall. |
| **Longitarsus suturellus, Duft.** | Benthall Edge. |
| **Haltica pusilla, Duft.** | Wenlock Edge. |
| **Phyllotreta nodicornis, Marsh.** | Wenlock, several on **Reseda lutea.** |
| **,, tetrastigma, Com.** | Caughley, one swept in wood. |
| **Apteropeda globosa, Ill.** | Caughley. |
| **Clinocara tetratoma, Th.** | Caughley. |
| **Apion vorax, Hbst.** | Benthall Edge and Wenlock Edge, on **Mercurialis perennis.** |
| **Otiorhynchus ligneus, Ol.** | Benthall, in room, and Wenlock. |
| **Sitones regensteinensis, Hbst.** | Benthall, a few on gorse. |
| **Dorytomus vorax, F.** | Caughley, on sallow. |
| **Gymnetron beccabungae, L.** | Willey Pool, on watercress. |
| **Ceuthorhynchus cochleariae, Gyll.** | Benthall on **Cardamine pratensis.** |
| **Ceuthorhynchus alliariae, Bus.** | Caughley, on **Alliaria officinalis.** |
| **,, resedae, Marsh.** | near Presthope Stn., on **Reseda lutea.** |
| **,, melanostictus, Marsh.** | Benthall. |
| | Recorded by Mr. G. Potts. |
| **Cossonus ferrugineus, Clair.** | Benthall, in decayed Black Poplar, Feb. |

# DIPTERA.

Fifth Supplemental List of Shropshire Diptera. All taken at or near Oswestry by Mr. C. H. Wallace Pugh unless otherwise stated.

*Omitted in* 1928 *Records.*

The Fourth List of Shropshire Diptera. It should have been stated that the Specimens were recorded by Mr. C. H. Wallace Pugh.

**MYCETOPHILIDAE**

**Macrocera vittata (Mg.)** 1 f. Penygwely. July.
**Mycomyia incisurata (Ztt.)** 2 m. Whixall and Oswestry. June.
**Boletina basalis (Mg.)** 1 f. Whixall. 23 May.
**B. gripha (Dz.)** 1 m. 7 April. Candy Woods.
**Tetragoneura silvatica (Curt.)** 1 m. 15 May. Candy Woods.
**Rhymosia macrura (Winn.)** May. Common.
**Rh. domestica (Mg.)** 1 m. 1 f. May.
**Cordyla murina (Winn.)** 1 m. April.
**Mycetophila marginata (Winn.)** 2 f. April.

**BIBIONIDAE**

**Scatopse albit-arsis (Ztt.)** 2 m. July.
**Psectrosciara soluta (Lw.)** 1 m. June.

**CHIRONOMIDAE**

**Tanytarsus praecox (Mg.)** April. Common.
**T. sylvaticus (v. d. Wulp.)** 1 m. Whixall. 9 April.
**Chironomus chloris (Mg.)** Whixall, 9 April. Very abundant.
**Ch. riparius (Mg.)** April. Common.
**Ch. paganus (Mg.)** 1 m. 8 June.

**Ch. intectus (Wlk.)** 1 pair. Llechrydau. 24 Aug.
**Ch. nervosus (Staeg.)** 1 m. Whixall. 18 Aug.
**Ch. pilicornis (F.)** Whixall. 9 April. Common.
**Paratendipes albimanus (Mg.)** 1 pair. 1 f. Sept. and July.
**Metrioenemus fuscipes (Mg.)** April. Common.

**PSYCHODIDAE**

**Pericoma cognata (Eat.)** May. Common.
**P. blandula (Eat.)** 1 m. May.
**Ulomyia fuliginosa (Mg.)** May. Several.

**LIMNOBIDAE**

***Gonomyia lucidula (Meij.)** Snailbeach. (*F.W.E.*).
***G. recta (Tonn.)** 1 f. 1 July, Oswestry. Snailbeach. (*F.W.E.*).
***G. dentata (Meij.)** Snailbeach (*F.W.E.*).
**G. abbreviata (Lw.)** July. Common in garden.
**G. lateralis (Meq.)** 1 m. July. Benthall (*G. Potts*).
**Ilisia (Acyphona) maculata (Mg.)** May—July. Several.
***Molophilus bifidus (Goet.)** Snailbeach. (*F.W.E.*).
***M. flavus (Goet.)** Snailbeach. (*F.W.E.*).
**M. armatus (Meij.)** June—Aug. Common.
**M. medius (Meij.)** June—Aug. Fairly common.
**M. murinus (Mg.)** May. By running water.
**Rhypholophus haemorrhoidalis (Ztt.)** 3 m. Aug.—Sept.
**Ormosia pseudosimilis (Lundstr.)** 2 m. Penygwely. July.
**Erioptera meijeri (Edw.)** 1 pair. 10 May.
**E. fuscipennis (Mg.)** 3 m. Penygwely. 28 Aug.
**Crypteria limnophiloides (Bergr.)** Lawnt and Weston. Sept. several.
***C. carteri (Tonn.)** Snailbeach. (*F.W.E.*).
**Adelphomyia senilis (Hal.)** Morda.
**Dicranota exclusa (Wlk.)** Penygwely. May. Common in rushes.
**D. pavida (Hal.)** Penygwely. May. Common in rushes.
**D. subtilis (Lw.)** Candy. April and Sept. By running water.
**Tricyphona claripennis (Verr.)** 1 m. 1 f. Pengywely. May.
**Limnophila subtincta (Ztt.)** 1 m. 1 f. May.
**Phalocrocera replicata (L.)** 1 m. Whixall.
**Cylindrotoma diversa (Wlk.)** 1. Benthall. (*G. Potts*).

**DIXIDAE**

**Dixa aestivalis (Mg.)** 2 f. July.

**RHYPHIDAE**

**Mycetobia pallipes (Mg.)** 1 m. July.

**EMPIDAE**

**Rhamphomyia subcinerascens (Coll.)** 1 m. 2 f. Llechrydau. May.
**Rh. spinipes (Fln.)** 1 f. Lawnt. Oct. Near trees.
**Rh. nigripennis (F.)** June—Aug. Common on **Umbelliferae.**
**Rh. hybotina (Ztt.)** June. Candy Woods. Fairly Common.
**Rh. curvula (Frey.)** Whixall. 1 June. Fairly common.
**Rh. longipes (Mg.)** 1 pair. Candy Woods. June.
**Empis verralli (Coll.)** 1 pair. Llechrydau. May. Heather.
**E. lutea (Mg.)** 1 f. Benthall. 4 June. (*G. Potts*).
**Lissempis nigritarsis (Mg.)** 2 m. Benthall. July. (*G. Potts*).
**Hilara interstincta (Fln.)** 1 m. Benthall. June (*G. Potts*).
**H. longevittata (Ztt.)** June—July. **Umbelliferae.** Common.
**Bicellaria (Cyrtoma) simplicipes (Ztt.)** 1 m. Whixall. 1 June.
**B. nigra (Mg.)** 2 m. Candy Woods. 24 June.

**B. pilosa (Lund.)** Llechrydau. June. Common on heather.
**Chelifera (Hemerodromia) pectinicauda (Coll.)** 1 m. 23 July.
**Ardoptera guttata (Hal.)** 1 f. Candy, 6 June. 1 f. Benthall. 4 July. (*G. Potts*).
**Chelipoda (Lepidomyia) melanocephala (F.)** 1 m. Candy Woods. 23 June.
**Tachista annulimana (Mg.)** 1 m. June.
**Tachydromia macula (Ztt.)** 1 f. July.
**T. pallidiventris (Mg.)** July—Aug. Common.
**T. annulipes (Mg.)** 1 m. 8 June.
**T. exilis (Mg.)** Candy Woods. June. Fairly common.
**T. nigritarsis (Fln.)** 1 m. 1 f. Llechrydau. 23 June. Heather.

**DOLICHOPODIDAE**

**Dolichopus brevipennis (Mg.)** 1 m. 1 f. Whixall. 3 July.
**Hercastomus germanus (W.)** 1 f. 30 May.
**H. nigripennis (Fln.)** 1 m. 2 f. July.
**Gymnopternus aerosus (Fln.)** 1 m. Aug.
**Argyra confinis (Ztt.)** 1 m. Lawnt. July.
**Syntormon tarsatus (Fln.)** 4 f. Penygwely. 29 Aug.
**S. pallipes (F.)** 1 f. Candy Woods. 7 April.
**Xanthochloris ornatus (Hal.)** 2 f. Candy Woods. July.
**Anepsiomyia flaviventris (Mg.)** 1 m. July.
**Medeterus apicalis (Ztt.)** Aug. Fairly common.

**PLATYPEZIDAE**

**Platypeza modesta (Ztt.)** 1 f. Aug.
**Agathomyia antennata (Ztt.)** 1 m. 24 May.
**A. viduella (Ztt.)** 1 m. Aug.

**SYRPHIDAE**

**Orthoneura nobilis (Fln.)** 1 f. 12 July.
**Chilosia mutabilis (Fln.)** 1 m. Sept.
**Melangyna quadrimaculata (Verr.)** 1 m. 8 April. On sallow.
**Syrphus labiatarum (Verr.)** 1 f. 28 July.
**Neoascia floralis (Mg.)** 1 m. 29 May.
**Xylota abiens (W.)** 1 f. Lawnt. July.

**TACHINIDAE**

**Sarcophaga crassimargo (Pand.)** 1 m. Aug.
**Onesia coerulea (Mg.)** 1 m. 1 f. April and Aug.
**Lucilia sylvarum (Mg.)** 1 m. 1 f. July—Aug.
**L. simulatrix (Pand.)** 2 m. July.

**ANTHOMYIDAE**

**Phaonia (Hyetodesia) trigonalis (Mg.)** 1 m. 2 f. Aug.
**Hydrotaea militaris (Mg.)** 1 m.
**Hylemyia varicolor (Mg.)** 2 m. May.
**H. lasciva (Ztt.)** May. Fairly common.
**H. fugax (Mg.)** = **Phorbia pudica (Rnd.)** Common.
**Fannia (Homolomyia) pallitibia (Rnd.)** 1 f. 5 Sept.
**F. serena (Fln.)** May—June. Common.

**ACALYPTRATAE**

**Norellia liturata (Mg.)** 1 m. 1 July.
**Suillia laevifrons (Lw.)** 1 m. 1 f. Lawnt. Aug.
**S. flavifrons (Ztt.)** 1 m. Candy Woods. 7 May.
**S. ustulata (Mg.)** 2 m. Candy Woods. 7 May.
**S. pallida (Fln.)** 2 m. 1 f. Sept.—Oct.
**Bicolor (Ztt.)** 2 m. 4 Oct.
**Helomyza serrata (L.)** May. Fairly common.

**H. modesta (Mg.)** 1 m. 1 f. 3 April.
→ **Amoebaleria caesia (Mg.)** 1 m. Candy Woods. 10 June.
**Clusio (Stomphastica) flava (Mg.)** 1 f. 1 July.
→ **Limnia marginata (F.)** 1 m. Aug.
→ **Pteropaectria frondescentiae (L.)** 4 m. 2 f. 24 June. Rushes.
**Tephritis conura (Lw.)** 2 m. Candy, Lawnt. Thistles—marshy ground.
**Sepsis flavimana (Mg.)** 1 m. 1 July.
→ **S. ciliforceps (Duda.)** Not uncommon. Jan.—May.
→ **Nemopoda stercoraria (Dsv.)** May. Several.
→ **Henicita annulipes (Mg.)** 1 m. 27 Sept.
→ **Limosina sylvatica (Mg.)** Fairly common. Sept.—Oct.
→ **Scatella quadrata (Fln.)** 1 m. Jan.

**PHORIDAE**
**Trineura aterima (Mg.)** July. Common.
**T. schineri (Beck.)** 4 m. Tickwood, Buildwas. 20 April.
**Phora caliginosa (Mg.)** (=**urbana. Mg.**) 1 m. 2 Sept.
**Ph. thoracica (Mg.)** 1 m. 25 July.
— **Ph. lugubris (Mg.)** 1 f.
— **Ph. concinna (Mg.)** 2 pairs and others. July—Aug.

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* Recorded by Mr. F. W. Edwards, F.E.S. Trans. Ent. Socy. Lond. 1921.

# ZOOLOGY.

Amongst the more interesting Shropshire records this year are the occurrence of the Whiskered Bat at Broseley and Dowles; Whooper Swan at Bayston Hill; and Montagu's Harrier and Red Throated Diver near Bridgnorth. Quail and Crossbills were observed under circumstances which implied that they were nesting here. Quite a number of Swifts appeared here in April (19th onwards) in advance of their usual time of arrival, the beginning of May, while a few Cuckoos also arrived earlier than usual, an egg being found in a Hedge Sparrow's nest on 3rd May.

From correspondents in North Wales several very interesting records have been received. A pair of Crossbills nested in January near Corwen and reared a brood. A Woodchat Shrike was watched in West Anglesey on June 6th—new to the Welsh Fauna—and a Lesser Spotted Woodpecker obtained at Bodorgan—new record for Anglesey. A Snow Bunting was seen on the Great Orme in February, and a party of 40 seen to arrive on the Flintshire coast on the 1st November, some of which remained in the district into the New Year. A party of four Waxwings appeared near Abergele about Christmas, 1927; one of them was caught and caged, and took a prize at a local bird show. In August two Rose-coloured Starlings were seen near Mostyn, Flintshire—third record for North Wales. The Spotted Crake was noted repeatedly in Flintshire, where it was undoubtedly nesting. The Turtle Dove nested near Towyn—first record on the West Coast. A pair of Lesser Whitethroats spent the summer at Aberystwyth—also first record for the district. In November and December two Hen Harriers were watched repeatedly quartering a marsh in West Anglesey. Two Long-tailed Ducks were seen on the Dovey Estuary in December, and large flocks (up to 100) of Pintails.

H. E. FORREST.

# MAMMALS.

**Pipistrellus pipistrellus** (Pipistrelle). *Chitty*. Oct. 20. One chased by House Martin, Yockleton, 5 p.m. *Owen*. Apl. 6, one flying 3-10 p.m., Knighton.

**Myotis mystacinus** (Whiskered Bat). *Potts*. Sept. 9, one at Benthall. *Elliott*. Jan. 6, one on wing 7-45 a.m., Dowles.

**Sorex minutus** (Pigmy Shrew). *Salter*. Oct. 2. One caught by cat, Aberystwyth.

**Talpa europoea** (Mole). *Huxley*. Feb. Cream-coloured one, Morville.

**Vulpes vulpes** (Fox). *Potts*. Mar. 23. Fox and Rabbit started from under same bush during hunt. *W. Aspden*, in *British Birds*, records great havoc amongst the Puffins and other birds on Puffin Island by a Fox introduced there.

**Martes martes** (Marten). *Liverpool Post*. Dec. 11th, one captured near Barmouth.

**Mustela putorius** (Polecat). *Huxley*. Sept. 20. Young male Llanfair Caereinion. *Bible*. Sixteen trapped, Aberdovey district in Autumn. Another "red" one trapped Mar. 30; fourth since summer of 1927.

**Putorius nivalis** (Weasel). *Bible*. Very scarce lately Aberdovey: saw one May 9th and Dec. 16th.

**Sciurus vulgaris** (Squirrel). *Owen*. May 28, two in holes in trees, Rhayader. *Pitt*. In Bridgnorth district has become more numerous than before the Squirrel became scarce about 1915.

**Muscardinus avellanarius** (Dormouse). *Elliott*. Oct. 20, nest near Town Mills, Bewdley; first seen for several years.

**Apodemus sylvaticus wintoni** (Yellow-necked Mouse). *Pitt*. Less plentiful Bridgnorth district, but had fine male from Millichope Feb. 1, 1929.

# BIRDS.

**Turdus viscivorus** (Mistle Thrush). *Elliott*. Mar. 4, building, Dowles. *Forrest*. Apl. 8, fledged brood, Bayston Hill. Oct. 25, young one, gape still yellow, dead beneath telegraph wires, Meole: very late hatch.

**T. philomelus** (Song Thrush). *Thomas*. Mar. 10, nest 4 eggs, Abergele. *H. H. Hughes*. End of January, very young bird, with yellow gape, in garden 8 Belmont, Shrewsbury.

**T. musicus** (Redwing). *Bible*. Apl. 17, one Aberdovey. *Salter*. Mar. 25, large flock Aberystwyth.

**T. pilaris** (Fieldfare). *Thomas*. May 4, five seen and heard Abergele. *Elliott*. Nov. 4, number on Hope Mountain, nr. Wrexham: 8th Dowles. *Bible*. 2nd, two flocks, Aberdovey.

**T. torquatus** (Ring Ouzel). *Owen*. Mar. 24, Rhayader. *Wenner*. 29th, Llandegla, nr. Corwen. *Thomas*. Apl. 9, two Abergele. *Salter*. 7th, Llandovery: July 11, young, Cader Idris; Aug. 17 last seen.

**Œnanthe oenanthe** (Wheatear). *Salter*. Mar. 18, numbers passing Aberystwyth and (*Bible*), Aberdovey. *Gardner*. 24th, Stretton. *Wenner*. 29th, Llandegla, nr. Corwen. *Thomas*. Apl. 2, three Abergele. *Owen*. 9th, many Knighton.

**Saxicola rubetra** (Whinchat). *Potts*. None seen for several years, Broseley! *Owen*. Apl. 25, Knighton; many May 10th: nest 5 eggs 13th; early. *Elliott*. May 9, Dowles, and (*Bible*) Aberdovey. *Salter*. Apl. 28, Aberystwyth.

**Phoenicurus phoenicurus** (Redstart). *Potts.* Very scarce: only one seen Broseley. *Whittaker.* Pair reared brood in nest-box, Church Stretton. *Owen.* Apl. 21, several, Knighton: nest 6 eggs, May 14. *Elliott.* Apl. 22, several, Dowles: one 7 Sept. *Salter.* Apl. 25, Aberystwyth.

**P. ochrurus** (Black Redstart). *Haines.* saw one at Barmouth winter 1927/8, apparently a male. *Backhouse.* A few days later, a female same place.

**Erithacus rubecula** (Robin). *H. H. Hughes.* End of January: very young bird with speckled breast in garden No. 8, Belmont.

**Luscinia megarhyncha** (Nightingale). *Potts.* Apl. 13, Ironbridge. After silence during cold spell, singing all week up to 27th. *Elliott.* 25th, Dowles. *Gepp.* May 1, Pulley. *Everall.* 2nd, singing 2-30 to 3-30 a.m., Shrawardine.

**Sylvia communis** (Whitethroat). *Potts.* Apl. 22, several reported Broseley. *Bible.* One on 23rd and several 24th, Aberdovey. *Elliott.* 27th, Dowles. *Forrest.* 28th, Bayston Hill; May 1, numerous. *Thomas.* Apl. 27, Abergele: much scarcer this year. *Owen.* 25th, Knighton: nest 5 eggs May 14. *Salter.* Apl. 22, Aberystwyth.

**S. curruca** (Lesser Whitethroat). *Elliott.* Apl. 26, Dowles. *Thomas.* 27th. Abergele. *Owen.* 26th, Knighton. *Salter.* May 6, pair Aberystwyth: male singing till July 2: new record for district.

**S. atricapilla** (Blackcap). *Elliott.* Apl. 11, Dowles. *Potts.* 25th, several Broseley. *Bible.* May 2, Aberdovey: another 3rd. *Thomas.* Apl. 11, Abergele. *Owen.* 25th, Knighton: May 31, nest 5 eggs of the pink variety. *Salter.* Apl. 29, Aberystwyth: May 5, Llandovery.

**S. borin** (Garden Warbler). *Potts.* Apl. 29, Broseley. *Elliott.* 26th, Dowles. *Thomas.* 27th, Abergele. *Owen.* May 3, Knighton. *Salter.* 6th, Aberystwyth.

**Phylloscopus collybita** (Chiffchaff). *Thomas.* Mar. 17, Abergele. *Elliott.* 18th, Dowles; also *Chitty.* Yockleton, and *Ruth Jackson,* Shelton Rough. *Potts.* 23rd, two Wenlock. *Huxley.* 25th, Shrewsbury. *Bible.* 27th, Aberdovey. *Forrest.* Apl. 7th, Pitchford and Acton Burnell. *Bailey.* 18th, Abdon. *Owen.* 5th, Knighton. *Elliott.* Sept. 25, in song: last seen Oct. 1. *Salter.* Mar. 25, Aberystwyth: last heard Sept. 2.

**P. trochilus** (Willow Wren). *Owen.* Apl. 24, Knighton. *Thomas.* 7th, Abergele: many 10th. *Elliott.* 7th, Dowles, and, 8th, Comley. *Potts.* 9th, Ironbridge, and *Cummings,* Llanarmon. *Forrest.* 11th, Bayston Hill. *Bailey.* 18th, Abdon. *Owen.* 13th, Knighton: numerous 21st. *Bible.* 7th, Aberdovey: numerous 10th. *Salter.* 6th, Aberystwyth.

**P. sibilatrix** (Wood Wren). *Thomas.* Apl. 24, one, 25th, many, Abergele. *Bible.* Apl. 24, Aberdovey. *Potts* and *Miss W. M. Pugh,* 25th, Broseley and Tickwood. *Elliott,* 26th, Dowles. *Bible.* May 1, one Aberdovey: 2nd, several. *Owen.* Apl. 24, Knighton; nests 6 and 7 eggs May 21. *Salter.* Apl. 6, Aberystwyth.

**Acrocephalus schoenobaenus** (Sedge Warbler). *Thomas.* Apl. 12, one Abergele; *Oldham.* Apl. 13, one singing, Penrhyn, Anglesey—early date. *Bible.* 22nd, Aberdovey; number on 24th. *Jackson.* May 4, Wroxeter. *Owen.* Apl. 25, Knighton. *Salter.* 26th, Aberystwyth

**A. scirpaceus** (Reed Warbler). *Backhouse.* Heard one in reed bed by Barmouth Junction in 1920, but not since. See record in same locality in *Vert. Fauna N. Wales.*

**Locustella noevia** (Grasshopper Warbler). *Salter.* Apl. 25, Aberystwyth. *Bible.* 29th, Aberdovey, and *Jackson.* Wroxeter.

**Ægithalos caudatus** (Long-tailed Tit). *Owen.* Apl. 13, nest 7 eggs, Knighton: both birds inside nest 7 p.m. *Bible.* Feb. 15, family party travelling, Aberdovey: getting common again.

**Parus palustris** (Marsh Tit). *Backhouse.* Seen once Barmouth, and once Arthog. *Salter.* May 10, Llanidloes. Rare in W. Wales.

**P. major** (Great Tit). *Thomas.* Nested in down-spout of Church, Towyn, Abergele: fed young in nest up to 27 July: late date.

**Sitta europoea** (Nuthatch). *Thomas.* Two nests in wall, Abergele: hole not mudded at all. *Owen.* Nov. 4, calling, Knighton. *Salter.* Constantly seen Glandovey.

**Motacilla flava** (Yellow Wagtail). *Thomas.* Apl. 24th, 3 Holywell. *Owen.* 25th, pair Knighton. *Salter.* None Aberystwyth.

**M. alba lugubris** (Pied Wagtail). *Owen.* May 18, nest *ten* eggs, Knighton.

**Anthus trivialis** (Tree Pipit). *Salter.* Apl. 10, Llandovery. *Bible.* 13th, several Machynlleth. *Miss A. M. Pugh.* 17th, Tickwood. *Potts.* 21st, reported Broseley. *Elliott.* 26th, Dowles. *Thomas* 25th, four Abergele. *Owen.* 21st, Knighton: nest 5 eggs May 5; early.

**Lanius collurio** (Red-backed Shrike). *Bible.* Apl. 28, reported Aberdovey. *Elliott.* May 11, Dowles; several young out July 29. *Owen.* June 23, pair feeding young, Broome. *James Backhouse.* Pair nested, Arthog. *Salter.* June 6, one Tall-y-llyn.

**L. senator** (Woodchat Shrike). *R. W. Jones.* In *British Birds.* June 6, female watched at Porth Dafarch, W. Anglesey. New to Welsh Fauna.

**Muscicapa striata** (Spotted Flycatcher). *Thomas.* Apl. 28, Abergele. *Bible.* 29th, Aberdovey; unusually numerous this year. *Elliott.* May 12, Dowles. *Salter.* 8th, Llanidloes.

**M. hypoleuca** (Pied Flycatcher). *Bible.* Apl. 21, Aberdovey: another May 4. *Potts.* May 4, male, S.W. Shropshire. *Elliott.* Apl. 29, in song all day, Dowles. *Sparrow.* Two males in grounds Stretton all summer: hen appeared one day in May and two cocks fought for her but she did not pair with either. *Whittaker.* Pair reared brood in nest-box, Stretton. *Owen.* Apl. 24, Knighton: numerous 30th.

**Bombycilla garrula** (Waxwing). *Thomas.* Four, Llysfaen just before Xmas 1927; one caught alive, took prize in local bird show.

**Hirundo rustica** (Swallow). *Bible.* Apl. 5, Aberdovey, and *Everall,* Shrawardine. *Thomas.* 9th, one, 13th, three, Abergele. *Potts.* 10th, Broseley. *E. T. Armstrong.* 11th, Lea Cross. *Elliott.* 12th, Dowles. *Bailey.* 14th, Ditton Priors. *Morris.* 17th, Pimley, and *Fulcher,* Shrewsbury. *Forrest.* 18th, Bayston Hill. Noted on 22nd at Oswestry (*Cottam*). Meole (*Bather*) and Llangollen (*Huxley*). *Forrest.* May 3, Bayston Hill. *Bible.* 3rd, flock arrived over sea, Aberdovey. *Morris.* Aug. 22, White one, Shrawardine. *Cottam.* Oct. 4, few, Llynclys. *Chitty.* 9th, Yockleton. *Gepp* and *Price Davies.* Oct. 11. Great numbers on wires, Montgomery Road. *Owen.* Apl. 18—Nov. 2, Knighton *Bowcock.* Apl. 17—Oct. 17, Wem.

**Delichon urbica** (House Martin). *Bible.* Apl. 16, Aberdovey. *Elliott.* 20th, Dowles. *Huxley.* 22nd, Llangollen. *Bather.* 26th, Meole. *Ingrams.* Aug. 8, over 100, Kingsland, Shrewsbury. *Thomas.* Apl. 24, Abergele. *Salter.* 11th, Llandovery and 13th Aberystwyth. Very numerous Llanidloes—nearly a dozen nests on one house.

**Riparia riparia** (Sand Martin). *Salter.* Mar. 25, Aberystwyth; nests in river bank again flooded out, as last year. *Elliott.* Apl. 2, Dowles, and 7th, Buildwas. *Ruth Jackson.* 8th, Shrewsbury, and *Wenner.* Bettws-y-coed. *Cummings.* 10th, Llanarmon. *Potts.* 13th, Coalport, and *Bible.* Aberdovey. *Huxley.* 22nd. Llangollen. *Cottam.* Oct. 4, two Oswestry. *Thomas.* Apl. 9, about 50 crossing Denbigh Moors. *Huxley.* Aug. 13, albino obtained Cross Houses, Shrewsbury. *Owen.* Apl. 21, Knighton: nest 5 eggs May 27.

**Carduelis flavirostris** (Twite). *Haines.* A flock over Arenig in early spring.

**C. linaria cabaret** (Lesser Redpoll). *Elliott.* Apl. 15, two Dowles. *James Backhouse.* Breeds regularly Arthog.

**C. carduelis** (Goldfinch). *Owen.* May 26, young, Knighton; July 15, building, Oswestry. *Salter.* Aberystwyth; local birds seem to leave southwards in September: then none seen till November when others arrive from north and winter here.

**Loxia curvirostra** (Crossbill). *Wenner.* Jan. 28, nest 4 eggs in Spruce, Garthmeilio, Co. Denbigh: young reared later. Photo in *British Birds*, March 1928. Eight still at Garthmeilio Apl. 11. *Potts.* Mar. 4, Pair feeding on larch cones, Whitley, Wenlock. Last year young ones seen with bills scarcely beginning to cross by *H. B. Coney.* *Thomas.* Small flock Abergele, Nov. 1927 to March 1928: last seen (pair) May 15: male shot out of party of 9, Feb. 23.

**Pyrrhula europoea** (Bullfinch). *Owen.* Sept. 7, young only just ready to fly, Knighton.

**Coccothraustes coccothraustes** (Hawfinch). *Thomas.* Mar. 3, Saw seven in Abergele Woods: two singing; Apl. 20, twenty together; May 4 nest two eggs; Cuckoo seen on 7th at this nest, which, inspected immediately, contained no eggs. *Owen.* Apl. 25, one Knighton; pair building May 14.

**Fringilla montifringilla** (Brambling). *F. H. Mills.* Mar. 23. One found unable to move, Menai Bridge; soon died. *Potts.* Jan. Hen caught Broseley; great flocks there about Christmas. *Bible.* Dec. 12, Aberdovey.

**F. coelebs** (Chaffinch). *Bible.* Oct. 17, flock numbering hundreds of both sexes, Aberdovey; Nov. 5, flocks passing east.

**Passer domesticus** (Sparrow). *Forrest.* Mar. 21. One fallen into Severn, Grey Friars; by fluttering along a yard at a time, managed to paddle itself to bank where it landed very exhausted. May 31st *et seq.* Catching Mayflies over Severn.

**Emberiza cirlus** (Cirl Bunting). *Thomas.* May 15, nest 4 eggs, Abergele. *Sumsion.* End of January, several Eaton Constantine, for a few days. *Salter.* Apl. 3 and 10, and Aug. 4, singing, Aberystwyth.

**Plectrophenax nivalis** (Snow Bunting). *Elliott.* Feb. 11, One seen on Great Orme, Llandudno. *Mr. Haines*, of Arthog has noted 5 on Cader Idris Mar. 10, 1904. *Freme.* Nov. 1, Witnessed arrival of about 40 at Point of Ayr: sharp E. wind and high tide. Some remained until end of January, 1929.

**Sturnus vulgaris** (Starling). *E. B. Corfield.* July. A white one frequently seen with others of normal colour on Blakeway Farm, Wenlock. *Salter.* Aberystwyth, May 27, young out of nest; June 20th, feeding young of second brood.

**Pastor roseus** (Rose-coloured Starling). *S. W. P. Freme.* In *British Birds* records adult female and immature bird nr. Mostyn, Flint, 18 Aug. 1928.

**Pyrrhocorax pyrrhocorax** (Chough). *Bible.* Dec. 1. Three seen Aberdovey. Also seen on other dates here and at Tonfanau. *Salter.* Aberystwyth and Barmouth.

**Corvus corax** (Raven). *Elliott.* Feb. 11. Pair nesting, Great Orme, Llandudno. *Owen.* Mar. 4, nest 4 eggs Llanbister: 16th, young in another nest; 30th, nest 5 eggs in larch tree, built of larch stems and lined horsehair—no wool. *Salter.* Nearly all usual nesting sites in Cardiganshire occupied, including one not visited for 20 years.

**Lullula arborea** (Woodlark). *Owen.* May 5, pair seen; male singing; nest ready for eggs, Gwernaffil, Knighton; 30th, young flown, and another nest building; cock singing.

**Apus apus** (Swift). *Fulcher.* Apl. 19, Cressage. *Salter.* 21st, Aberystwyth. *Potts.* 22nd, Broseley, and *Gepp* and *Morris*, Shrewsbury. *Elliott.* 24th, one Dowles, and *Sumsion*, 2 pairs Leighton. *Bather.* 25th, Meole. Noted on 26th at Shrewsbury (*Gepp* and *Huxley*), Dowles (*Elliott*), Oswestry (*Cottam*), and Aberdovey (*Bible*). *Ingrams.* Remarkably numerous on Kingsland, Shrewsbury, this year. *Forrest,* Aug. 9 and 10, left Bayston Hill. *Cottam.* Aug. 20, last seen, Oswestry. *Thomas.* Apl. 29, Abergele. *Fulcher.* Aug. 17, last seen Kingsland. *Owen.* Apl. 26, lot, Knighton.

**Caprimulgus europoeus** (Nightjar). *Huxley.* Apl. 17, reported as seen and heard, Ercall Hill, by Capt. Elkington—very early date. *Elliott.* May 12, Dowles. *Owen.* June 9, hardsat eggs, Stowe, Knighton. *Bible.* May 27, Aberdovey.

**Dryobates minor** (Lesser Spotted Woodpecker). *Mills.* Oct. 1926. One preserved Bodorgan Hall, obtained there: new record for Anglesey. *Owen.* May 5. One seen leaving nest-hole, Knighton.

**D. major** (Great Spotted Woodpecker). *Owen.* May 22, nest with young, Knighton; early.

**Iynx torquilla** (Wryneck). *Elliott.* May 12, Dowles.

**Cuculus canorus** (Cuckoo). *Owen.* Apl. 12, heard at Leintwardine. *Hugh Forrest.* 9th, one seen Middletown. *Elliott.* 17th, Dowles, and *Everall,* Shrawardine. *Potts.* 21st, calling, Broseley; reported a week earlier; 29th, female. *Morris.* 26th, two calling, Pimley *Cottam.* 29th, Oswestry: last heard 24th June. *Jackson.* May 4, Wroxeter. *Thomas.* June. On Gwrych estate, Abergele, Cuckoo hunted out and devoured eggs in nests of Spotted Flycatcher; first noted two Apl. 24. *Owen.* May 3, egg in Hedge Sparrow's nest; early: 16th, very brown egg in Robin's nest; 30th, egg in nest of Willow Wren with 5 eggs of the latter; nest not at all ruffled; how did Cuckoo place egg in nest unless by the beak? *Bible.* Apl. 26. Towyn.

**Athene noctua** (Little Owl). *Potts.* Mar. 23, Wenlock. *Freme.* Breeds Point of Ayr, Flintshire; occasionally visits shore. *Pitt.* Firmly established Bridgnorth district.

**Strix aluco** (Tawny Owl). *Owen.* Mar. 26, sitting hard, Knighton. *Whittaker.* Brood of three reared in nesting box, Ch. Stretton.

**Circus cyaneus** (Hen Harrier). *Orton.* Nov. 18. Two immature watched quartering Malldraeth Marsh, Anglesey; one also seen on 28th and Dec. 3rd and 5th.

**C. pygargus** (Montagu's Harrier). *Potts.* A grey male seen nr. Broseley, May 4, 19, and 25. A male, possibly same bird, killed Dudmaston, Bridgnorth, in summer; set up by Shelbrooke, Bridgnorth.

**Buteo buteo** (Buzzard). *Bible.* Apl. 22. 5 together, Aberdovey. *Owen.* Apl. 24, nest 3 eggs, almost fresh, in tree, Knighton. *Salter.* 15th, nest 3 eggs, Aberystwyth; July 19, one hovering like a Kestrel.

**Milvus milvus** (Kite). *Salter.* In Wales one pair brought off two young, and another one: the two were on the wing by June 27th—quite ten days before usual time.

**Accipiter nisus** (Sparrowhawk). *Owen.* May 12, nest 7 eggs, Knighton.

**Phalacrocorax carbo** (Cormorant). *Owen.* Apl. 2, seven perched in big elm, Abergwilli, Carmarthen; 19th, one shot out of two by pool, Brampton Bryan. *Bible.* Apl. 2, 22 together, Towyn, several showing breeding plumage.

**Sula bassana** (Gannet). *Bible.* July 24, large flock fishing Aberdovey; several at Tonfanau during August—twelve on 8th.

**Botaurus stellaris** (Bittern). *Congreve.* Jan. 19, one shot on Clwyd, nr. Denbigh. *Sankey.* Feb. 13. Seen, Boreatton Park; May 31, two seen and watched in boggy ground nr. Llanrhaiadr-yn-Mochnant.

**Ardea cinerea** (Heron). *Woodhouse.* June 20. Salmon, 24 lbs. killed in R. Teme near Ludlow; struck through the eye. *Owen.* Mar. 11, two pairs, Penybont. *Salter.* Three heronries Aberystwyth district—the largest, 18 nests, at Llanllyr, Aeron Valley.

**Anser albifrons** (White-fronted Goose). *Potts.* May 22. Three flew over Broseley. *Bible.* Jan. 6. One shot and 2 others seen Towyn.

**Bernicla canadensis** (Canada Goose). *Murrell.* Apl. 20, three on the Mere Pool, near the Column: *Cartwright.* Two on Severn, Atcham. Probably wanderers from Ellesmere where they breed.

**Cygnus musicus** (Whooper). *J. Goode.* Feb. 26. Three on flood water below Sharpstones, Bayston Hill; made loud barking noise while on water.

**Dafila acuta** (Pintail). *Bible.* Jan.—Feb., and Nov.—Dec. Large flocks up to 100 or more on Dovey Estuary.

**Nettion crecca** (Teal). *Bible.* Nov. 15. Numbers on Dysynni Estuary; nests regularly Peniarth-Ucha.

**Harelda glacialis** (Long-tailed Duck). *Bible.* Dec. 17, female on Dovey estuary; two on 26th; rare here: one stayed till end of January 1929.

**Bucephala clangula** (Goldeneye). *Oldham.* Apl. 13, brown-headed birds on 3 lakes, Valley, Anglesey. *Bible.* Dec. 17, four ducks and one drake on Dovey Estuary: two on 26th and 30th.

**Oidemia fusca** (Velvet Scoter). *Oldham.* Apl. 11, two parties (6 and 7) Colwyn Bay. *Freme.* A few visit Dee Estuary, with Common Scoters, towards end of March almost every year.

**Mergus serrator** (Red-breasted Mergauser). *Oldham.* Apl. 11, three Colwyn Bay and, 11th, Holyhead (1 M. 2 F.) *Bible.* Constantly seen in small numbers on Dovey Estuary between autumn and spring. Latest 23 April: earliest 5 Oct.

**Streptopelia turtur** (Turtle Dove). *Potts.* May 5, Broseley; and *Elliott*, Dowles. *Mrs. Steavenson.* There were altogether 24 about her garden at Bicton Heath this year, which fed with her tame pigeons. All but two had left by 2 Sept. *Thomas.* May 4, Abergele. *Owen.* 3rd, Knighton. *Bible.* Reported as nesting at Bryncrug, Towyn, in August—first record of breeding so far west. *Salter.* Heard in Aberystwyth in 1927: *Haines.* May 24, 1901, one near Llyn Gwernan; May 11, 1904, two near Llandrillo; June 12, 1904, one Arthog: June 3, 1905, one heard Palé, Corwen.

**Lyrurus tetrix** (Black Grouse). *Wenner.* Apl. 10, Bettws-y-coed. *Salter.* Plentiful Pant-y-dwr; almost disappeared Llangurig. *Pitt.* Has disappeared from its old haunts under the Clee Hills.

**Coturnix coturnix** (Quail). *Salter.* June 6, calling, Glandovey: not heard for years. *Huxley.* June 12. Female killed, telegraph wires, Bayston Hill; another slightly injured caught alive by boy a few days earlier.

**Crex crex** (Corncrake). *Potts.* Apl. 10, Broseley: May 4, Benthall: 24th, another Broseley. *Thomas.* 30th, Abergele. *Owen.* May 2, Knighton. *Salter.* Apl. 25, Aberystwyth. *Pitt.* Never heard now Bridgnorth district.

**Rallus aquaticus** (Water Rail). *Bible.* Dec. 26, two seen Aberdovey.

**Porzana porzana** (Spotted Crake). *Congreve* and *Freme.* Seen repeatedly in two marshes in Flintshire: one shot 21 Sept. Nest and eggs found, in one of these marshes by Mr. Freme in June, 1926.

**Vanellus vanellus** (Peewit). *Elliott.* Feb. 25, returned to hills, Ratlinghope. *Forrest.* Mar. 5, spring note first heard. *Owen.* Apl. 6, 5 nests with 4 eggs, Knighton. *Bible.* Feb. 18, flock, several hundreds on flooded fields, Forden, Montgomery.

**Charadrius hiaticula** (Ringed Plover). *Bible.* March 1, noted in couples Apl. 22, nest 3 eggs, Aberdovey.

**C. morinellus** (Dotterel). *G. Haines.* May 10, 1901, four together on Cader Idris; May 8, 1902, four again.

**C. apricarius** (Golden Plover). *Sankey.* June 11. Several on moor, Llanrhaiadr-yn-Mochnant. *Salter.* Mar. 11. About 20 with Peewits, Aberystwyth. *Bather.* December. Flock at Lower Pulley.

**Scolopax rusticola** (Woodcock). *Potts.* Apl. 2, brood hatched, Little Wenlock. *Sankey.* Nov. 15. Five flushed during shoot in Boreatton Park.

**Gallinago gallinago** (Snipe). *Elliott.* Mar. 4. Drumming Ratlinghope. *Owen.* Ap. 22, nest 3 eggs hard set, Knighton.

**Limnocryptes gallinula** (Jack Snipe). *Bible.* Aug. 3, one on Golf Links, Towyn: early date.

**Machetes pugnax** (Ruff). *Freme.* Oct. 1. Immature female shot, Point of Ayr.

**Erolia alpina** (Dunlin). *Owen.* May 6, Elan Valley, Rhayader: first ever noted in this district. *Salter.* 5th, some nesting Teifi Bog.

**E. maritima** (Purple Sandpiper). *Salter.* Feb. to Apl., and November. Party of ten, Aberystwyth, unusually large number together.

**E. minuta** (Little Stint). *Freme.* Regular visitor in small numbers to Dee Estuary, Aug.—Oct.; one shot Point of Ayr 15 Oct.

**Tringa hypoleuca** (Sandpiper). *Wenner.* Apl. 10, Bettws-y-coed. *Elliott.* 18th, Dowles. *Bible.* 21st, Aberdovey. *Thomas.* 24th, six, Abergele. *Owen.* 21st, Knighton; numerous on Teme 26th; nests with 3 and 4 eggs, May 5; bird on nest nr. Leintwardine lifted off nest; feigned lameness then flew to stream and half swam, half fluttered 20 yards; nest *five* eggs May 24.

**T. subarquata** (Curlew Sandpiper). *A. W. Boyd* in *British Birds*, Sept. 16, three on Gailey Pool, Staffordshire, near Shropshire border. Only once before recorded in Staffs. (1923).

**T. ochropus** (Green Sandpiper). *Corbet.* Seen repeatedly spring and autumn, Longnor.

**T. totanus** (Redshank). *Cartwright.* Mar. 26. Numerous Atcham: Many reared there 1927. *Owen.* Mar. 3. Knighton. *Bible.* Large flocks, up to about 100, on Dovey Estuary, October to January.

**T. erythropus** (Spotted Redshank). *Freme.* Oct. 15. One at Point of Ayr; another seen Padeswood Lake, Buckley, Flints., Dec. 22, 1926.

**Limosa limosa** (Black-tailed Godwit). *Freme.* Aug. 1. One shot, Point of Ayr, Flintshire; another nr. Burton Aug. 1, 1923; another in September 1924 at Flint. One or two every autumn on Dee Estuary.

**Numenius arquata** (Curlew). *Elliott.* Mar. 5, first seen Ratlinghope. *Potts.* 23rd, two Wenlock, and Apl. 7 two Arlscott; also *Hugh Forrest,* Middletown. *Bowcock.* Increasing Wem district. *Owen.* Feb. 19, Knighton; Mar. 21, flying over late evening calling loudly: Nov. 15, seen Dolau—late date.

**N. phoeopus** (Whimbrel). *Bible.* May 3, about 14, Aberdovey: seldom so many together.

**Sterna albifrons** (Lesser Tern). *Bible.* Apl. 29, Aberdovey. Last seen Tonfanau, Aug. 17: eggs June 2: nest 3 eggs on 8th.

**S. fluviatilis** (Common Tern). *Bible.* Apl. 23. Reported Aberdovey—early: saw three 28 May, but not nesting apparently—July 31 one at Tonfanau.

**S. paradisaea** (Arctic Tern). *Salter.* Nov. 1. One picked up dead, Caersws—late date.

**Larus ridibundus** (Black-headed Gull). *Hobson.* Nov. 26. Seventeen on flooded ground, Midland Show Ground, Shrewsbury. *Forrest.* July 28, immature bird found dead Acton Burnell by Capt. Archibald Bruce. *Potts.* Jan. Two small flocks Broseley. *Owen.* Mar. 18, few Knighton: Apl. 22nd, numerous; lot of nests St. Michael's Pool but no eggs Apl. 26th; also at Llandegla, eggs in several nests 28th: about 1000 birds there: a few young May 12th.

**Rissa tridactyla** (Kittiwake). *Huxley.* Feb. Adult found dead Kingsland. *Bible.* Feb. 14, several on Dovey Estuary—rarely seen here alive.

**Colymbus arcticus** (Black-throated Diver). *W. Blake.* Immature male shot Dec. 17, 1927, on Wye, near Ross, Herefordshire.

**C. stellatus** (Red-throated Diver). *Bible.* Oct. 7, one Aberdovey: early. *Potts.* One shot on Severn nr. Bridgnorth, in Autumn.

**Podiceps cristatus** (Great Crested Grebe). *Sumsion.* Mar. 23. Party of 9 on Severn, Cressage.

**P. nigricollis** (Black-necked Grebe). *Oldham.* Apl. 11, one in breeding plumage, Holyhead.

**Hydrobates pelagicus** (Storm Petrel). *Salter.* Aberystwyth, after November gales three picked up dead; scores must have perished.

# REPTILES.

**Vipera berus** (Viper). *Bible.* April. One killed Aberdovey, 22½ inches: May, another, 23 inches.

# AMPHIBIANS.

**Rana temporaria** (Frog.) *Bible.* Mar. 21, tadpoles, Aberdovey.

# FISHES.

**Salmo fario** (Trout). July 10. One with humped back caught in R. Corve, Ludlow, by Mr. A. Lewis.

**Clupea finta** (Twaite Shad). *Bible.* May 30. One weighing 1½ lbs. taken in R. Dovey, Aberdovey: rare here.

**C. harengus** (Herring). *Bible.* Nov. 27. One cast ashore *alive*, Aberdovey—very unusual, especially as river was in flood.

**Syngnathus acus** (Great Pipe Fish). *Bible.* May 18. One 14 inches long found in R. Dovey, Aberdovey.

# METEOROLOGY.

The loss of two observers during the year is recorded with regret, the Rev. G. W. Stewart having left the county, and an old observer, Mr. T. Hipkins, of Church Preen, having died. A new observer in the Shrewsbury area has been secured, Mr. W. H. Purslow of Copthorne. Records from his, the western side of the town, will be valuable.

Mr. Ernest Griffiths, Mayor of Bishop's Castle, in sending his return for the year, marks it as his " 56th." This is indeed a long and honourable record for an observer.

The year's weather may be passed as quite satisfactory. Rainfall was some $2\frac{3}{4}$ inches above the average, but unlike 1927, the wet months come at the beginning and end of the year, the summer and the holiday season, and the times of hay and corn harvest, being favourable; and the summer was marked by generally bright and warm weather, without excessively hot spells. In notes, to be found below, by some observers, farm crops and fruit in general are reported as fair to excellent.

The average annual rainfall in Shropshire, as recorded by the Club's observers, was 29.65 inches for the 27 years 1901–27. The average for 1925 was 32.49 inches.

M. GEPP.

## MONTHLY NOTES, 1928.

JANUARY—

(2) Very remarkable alternation of fine and wet days and incessant shuttling of the mercury; (18) Wind chiefly W. or N.W. Gales 5th, 6th, 24th, 26th, 31st. (25) Dull wet month.

FEBRUARY—

(12) A great storm from the West on 10th and 11th. (18) Wind W. to N. first half; then S.E. Big gale and thunder 10th. (25) Early part wet; afterwards dry and mild.

MARCH—

(2) 3rd, the earliest day to exceed 60°; 11th and 12th, with 29° and 32° as day maximum, were low temperature records by 28 and 29 days respectively. (18) Wind S.E. first half, Snow 10th, 11th, 12th. (25) Mild early part, then snow and frosts.

APRIL—

(2) Record cold snap by 12 days of lateness around Low Sunday (April 15th)—the suggested date for the fixed Easter holiday. (12) Heavy frost on 14th—about 14°. (18) Wind chiefly S.W. or N.W.; thunder 11th, 21st. (25) Fairly dry, mild month.

MAY—

(10) Very small rainfall, causing shorter grass. (18) Wind chiefly E. or N.E.; thunder 18th. (25) Dry and very warm month.

JUNE—

(2) 14th and 16th latest cold nights by 3 days. (10) Rainfall very heavy for June. (12) Very cold and wet month; 3° frost on 16th; a gale on 27th and 28th and cold continuous rain on 28th and 29th. (18) Wind chiefly W. or S.W.; Gale 9th, 26th, thunder 6th. (25) Wet most of month.

JULY—

(2) A glorious fine month with no too great heat. (18) Wind W.; 108° in sun 15th. (25) Very hot most of month.

AUGUST—

(18) Wind W.; 111° in sun 5th; thunder 24th. (25) Wet after first 4 days.

SEPTEMBER—

(2) Warm and beautiful first half, with abnormal dry cold after, yet dry and sunny throughout. (16) Frost on 14th, 19th and 20th. (18) Wind W. first half; then N.E. (25) Sharp frosts; fairly dry.

OCTOBER—

(12) Very wet month. (16) Frost 11° on 1st. (18) Wind chiefly W.; big gale 19th. (25) Rain on most days.

NOVEMBER—

(2) Warmest November for a long time; the 12th was the latest warm reading (59°) by 8 days. (12) Very wet month. (16) Frost 14° on 10th. (18) Wind N.E. to S.W.; gale 23rd, 24th, 25th. (25) Rain most days.

DECEMBER—

(16) Frost 14° on 8th, and 19° on 15th. (18) Wind chiefly W. or N.W.; Snow 29th—30th; Gale 24th. (25) Early part dry; afterwards wet.

## NOTES OF THE WEATHER AS AFFECTING CROPS, ETC.

*Major Whitaker, Totterton.*—Excellent crops generally. From a sporting point of view a poor year for partridges and wild pheasants, due no doubt to a cold wet June.

*Prebendary Burton, Bitterley.*—No rain fell between July 6th and 27th. This was excellent for the haymaking. There were two spells of six days each of fine weather in September. This was good for the corn harvest.

*Mr. E. Compton, Oswestry.*—Very small rainfall in May, causing shorter grass. The heavy rainfall of Oct. and Nov. had bad effect on farming and gardening operations; potato crop badly affected.

*Mr. R. E. Serjeantson, Craven Arms.*—All farm crops very good: vegetables good. Soft fruit very bad; apples, pears, plums and apricots fair.

*Mr. V. S. Wrigley, Diddlebury Hall.*—Weather exceptionally good for farmers. A fair crop of hay well harvested; good root crops and good grain crops, well got.

*Rev. W. Brewster, Fitz.*—Canker and Scab on apples.

## EXTREMES.

| | |
|---|---|
| Greatest rainfall in 24 hours, Oswestry, Oct. 10 ... | 1.32 |
| Greatest total fall during year, Oswestry Reservoir ... | 43.13 |
| Least total fall during year, Shrewsbury, Coton Hill ... | 25.06 |
| Greatest number of rainy days, Norton-in-Hales ... | 259 |
| ,, ,, ,, Dorrington ... ... | 250 |
| ,, ,, ,, Church Stretton ... | 230 |
| Least number of rainy days, Shifnal ... ... ... | 178 |
| ,, ,, ,, Shrewsbury, Coton Hill... | 188 |
| ,, ,, ,, Chirbury ... ... | 188 |
| Lowest Temperature, Craven Arms, Dec. 15 ... ... | 12° |
| ,, ,, Oakly Park, Dec. 15 ... ... | 13° |
| Highest Temperature, Bridgnorth, July 15 ... ... | 89° |

Wettest months—January, October and November.

Driest months—April, May, July and September.

M. GEPP.

## TABLE No. I.

# NAMES OF OBSERVERS AND STATIONS.

| NO. | ALTITUDE. FEET. | STATION. | OBSERVER. | LATITUDE. ° ′ ″ | LONGITUDE. ° ′ ″ |
|---|---|---|---|---|---|
| (1) | 894 | Burwarton | Mr. A. Allardice | 52 27 30 | 3 34 0 |
| (2) | 800 | Woolstaston | Rev. A. Clover | 52 34 0 | 3 0 0 |
| (3) | 720 | Bishop's Castle | E. Griffiths. Esq. | 52 30 0 | 3 0 0 |
| (4) | 700 | Totterton, Lydbury North | Major W. H. B. Whitaker | 52 5 0 | 2 56 30 |
| (5) | 698 | Reservoir, Oswestry | G. W. Lacey, Esq. | 52 48 0 | 3 3 0 |
| (6) | 582 | Church Stretton | Mr. E. J. Marsh | 52 30 49 | 2 49 33 |
| (7) | 509 | Bitterley | Prebendary J. R. Burton | 52 23 40 | 2 38 0 |
| (8) | 490 | Chirbury | Lt.-Col. S. D. Price Davies | 52 34 0 | 3 4 0 |
| (9) | 460 | Alveley | Capt. H. D. Wakeman Colville, R.N. | 52 28 20 | 2 20 0 |
| (10) | 450 | Oswestry | E. Compton, Esq. | 52 48 0 | 3 3 0 |
| (11) | 406 | Craven Arms | R. E. Serjeantson, Esq. | 52 25 0 | 2 50 0 |
| (12) | 370 | Diddlebury | V. S. Wrigley, Esq. | 52 27 25 | 2 43 30 |
| (13) | 350 | Norton-in-Hales | C. Chadwick, Esq. | 52 56 30 | 2 26 30 |

**TABLE No. 1—continued.**

| NO. | ALTITUDE. FEET. | STATION. | OBSERVER. | LATITUDE. ° ′ ″ | LONGITUDE. ° ′ ″ |
|---|---|---|---|---|---|
| (14) | 350 | Dorrington | Mr. J. A. Narraway | 52 37 0 | 2 45 0 |
| (15) | 320 | Bromfield | F. Brayshaw, Esq. (Warwick House) | 52 23 10 | 2 45 40 |
| (16) | 300 | Oakly Park | Mr. J. R. Francis | 52 22 50 | 2 45 20 |
| (17) | 290 | Sansaw | Mr. J. Clark | 52 48 0 | 2 43 30 |
| (18) | 290 | Cantreyn, Bridgnorth | W. Bayliss, Esq. | 52 23 30 | 2 25 40 |
| (19) | 283 | Shifnal | T. F. Chard, Esq. | 52 40 11 | 2 31 30 |
| (20) | 280 | Newport | Col. R. Leeke | 52 46 40 | 2 23 30 |
| (21) | 271 | Whitchurch | Mr. W. Sowden | 52 56 30 | 2 45 0 |
| (22) | 252 | Shrewsbury (Copthorne) | Mr. W. H. Purslow | 52 42 30 | 2 46 40 |
| (23) | 238 | Fitz Rectory | Rev. W. Brewster | 52 45 20 | 2 49 10 |
| (24) | 235 | Radbrook, Shrewsbury | D. D. Macpherson, Esq. | 52 42 0 | 2 46 45 |
| (25) | 208 | Roden | J. W. Nowell, Esq. | 52 44 30 | 2 37 40 |
| (26) | 190 | Shrewsbury (Coton Hill) | Dr. M. Gepp | 52 42 40 | 2 45 55 |

## TABLE No. 2.

# MONTHLY RAINFALL IN INCHES.

| | | JAN. | FEB. | MAR. | APL. | MAY. | JUNE. | JULY. | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | Burwarton .. | 6.02 | 3.02 | 3.05 | 1.79 | 1.18 | 3.80 | 1.25 | 3.08 | 1.69 | 6.29 | 4.84 | 1.55 | 37.56 |
| (2) | Woolstaston .. | 6.04 | 3.43 | 3.32 | 1.92 | 1.43 | 3.59 | 1.33 | 3.48 | 1.49 | 5.16 | 4.86 | 2.27 | 38.32 |
| (3) | Bishop's Castle .. | 5.33 | 2.44 | 2.61 | 1.51 | 1.07 | 3.97 | 1.41 | 3.00 | 1.17 | 4.60 | 4.56 | 2.70 | 34.37 |
| (4) | Totterton .. | 4.00 | 2.17 | 2.32 | 1.35 | 1.19 | 4.09 | 1.41 | 3.55 | 1.31 | 4.34 | 3.94 | 1.97 | 31.64 |
| (5) | Reservoir, Oswestry .. | 6.77 | 3.74 | 2.92 | 1.47 | 1.63 | 4.83 | 1.78 | 4.25 | 1.91 | 5.42 | 5.75 | 2.66 | 43.13 |
| (6) | Church Stretton .. | 4.91 | 2.79 | 2.64 | 1.90 | 1.70 | 3.82 | 1.80 | 3.60 | 1.52 | 5.31 | 4.53 | 2.90 | 37.42 |
| (7) | Bitterley .. | 4.25 | 2.06 | 2.03 | 1.25 | 1.22 | 3.38 | 1.20 | 3.17 | 1.21 | 3.05 | 2.04 | 2.25 | 27.11 |
| (8) | Chirbury .. | 4.54 | 2.16 | 1.97 | 1.42 | 1.29 | 3.33 | 1.25 | 3.35 | 1.36 | 3.74 | 3.90 | 1.79 | 30.10 |
| (9) | Alveley .. | 4.44 | 2.25 | 2.02 | 1.56 | 0.88 | 2.65 | 1.15 | 2.62 | 1.04 | 4.65 | 3.23 | 2.12 | 28.61 |
| (10) | Oswestry .. | 6.89 | 3.83 | 2.78 | 1.48 | 1.50 | 4.47 | 1.73 | 4.42 | 2.06 | 5.14 | 5.94 | 2.18 | 42.42 |
| (11) | Craven Arms .. | 4.20 | 2.10 | 2.67 | 1.49 | 1.46 | 3.70 | 1.57 | 4.25 | 1.96 | 5.60 | 4.83 | 2.70 | 36.53 |
| (12) | Diddlebury .. | 4.61 | 2.21 | 1.98 | 1.90 | 1.32 | 3.48 | 1.27 | 3.71 | 1.31 | 4.53 | 3.59 | 1.99 | 31.90 |
| (13) | Norton-in-Hales .. | 4.76 | 2.24 | 1.98 | 1.45 | 1.91 | 5.24 | 1.80 | 4.46 | 1.44 | 3.38 | 4.39 | 2.80 | 35.85 |
| (14) | Dorrington .. | 4.91 | 2.72 | 2.41 | 1.76 | 1.68 | 3.67 | 0.98 | 3.51 | 1.49 | 4.96 | 3.80 | 1.63 | 33.52 |
| (15) | Bromfield .. | 4.36 | 2.19 | 2.76 | 1.59 | 1.01 | 3.51 | 1.16 | 3.23 | 1.57 | 5.19 | 3.88 | 1.82 | 32.27 |

**TABLE No. 2—continued.**

| | | JAN. | FEB. | MAR. | APL. | MAY. | JUNE. | JULY. | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (16) | Oakly Park .. | 4.31 | 2.20 | 2.18 | 1.54 | 0.87 | 3.61 | 1.15 | 3.32 | 1.71 | 5.64 | 4.20 | 2.10 | 32.83 |
| (17) | Sansaw .. | 5.11 | 2.31 | 2.19 | 1.60 | 0.88 | 3.91 | 1.70 | 3.44 | 1.63 | 3.95 | 4.05 | 2.48 | 33.25 |
| (18) | Cantreyn, Bridgnorth | 4.05 | 1.91 | 1.74 | 1.60 | 0.94 | 3.28 | 1.24 | 2.61 | 1.34 | 4.53 | 3.35 | 1.72 | 28.31 |
| (19) | Shifnal .. | 3.75 | 2.03 | 1.69 | 1.29 | 1.52 | 3.02 | 1.11 | 1.62 | 1.76 | 4.49 | 3.69 | 1.97 | 27.94 |
| (20) | Newport .. | 3.68 | 2.46 | 1.88 | 1.24 | 1.01 | 3.71 | 1.41 | 2.38 | 1.10 | 4.37 | 3.65 | 2.18 | 29.07 |
| (21) | Whitchurch .. | 4.49 | 1.84 | 1.90 | 1.01 | 1.17 | 4.49 | 1.33 | 3.35 | 1.35 | 4.25 | 3.98 | 2.13 | 31.29 |
| (22) | Shrewsbury, Copthorne | — | — | — | — | — | — | — | — | 1.06 | 3.08 | 3.23 | 1.83 | — |
| (23) | Fitz Rectory .. | 3.88 | 2.00 | 2.11 | 1.41 | 1.27 | 3.12 | 1.36 | 2.85 | 1.40 | 2.83 | 3.04 | 2.96 | 28.23 |
| (24) | Radbrook, Shrewsbury | 3.97 | 1.99 | 2.01 | 1.18 | 1.56 | 3.20 | 1.40 | 2.98 | 1.37 | 3.52 | 3.25 | 2.00 | 28.43 |
| (25) | Roden .. | 3.65 | 2.00 | 1.16 | 1.21 | 0.79 | 3.53 | 1.52 | 3.12 | 1.21 | 3.45 | 3.42 | 1.96 | 27.02 |
| (26) | Shrewsb'y, Coton Hill | 3.56 | 1.78 | 1.69 | 1.03 | 1.19 | 2.84 | 1.22 | 2.83 | 1.16 | 3.07 | 2.86 | 1.86 | 25.06 |
| | | | | | | | | | | | | | Total for year .. | 812.18 |
| | | | | | | | | | | | | | Average for year | 32.49 |

## TABLE No. 3.

# GREATEST RAINFALL IN 24 HOURS, WITH DATES.

| | Jan. | Day | Feb. | Day | Mar. | Day | Apl. | Day | May | Day | June | Day | July | Day | Aug. | Day | Sept. | Day | Oct. | Day | Nov. | Day | Dec. | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) Burwarton .. | .91 | 21 | .71 | 4 | .49 | 29 | .51 | 12 | .60 | 18 | .81 | 29 | .56 | 30 | .53 | 22 | .40 | 8 | .96 | 26 | .62 | 16 | .48 | 19 |
| (2) Woolstaston .. | 1.16 | 21 | .60 | 29 | .80 | 29 | .69 | 12 | .43 | 17 | 1.05 | 6 | .57 | 30 | .66 | 26 | .37 | 5 | .67 | 26 | .89 | 14 | .54 | 30 |
| (3) Bishop's Castle | .48 | 1 | .36 | 4 | .52 | 20 | .50 | 12 | .30 | 16 | .95 | 6 | .67 | 30 | .63 | 22 | .30 | 5 | .69 | 26 | .50 | 19 | 58 | 30 |
| (4) Totterton | .75 | 21 | .45 | 20 | .36 | 29 | .45 | 12 | .38 | 17 | 1.03 | 6 | .76 | 30 | .76 | 26 | .37 | 5 | .52 | 26 | .65 | 14 | .28 | 28 |
| (5) Oswestry Resr'r | .77 | 1 | .60 | 10 | .63 | 30 | .26 | 12 | .64 | 20 | .96 | 28 | .39 | 31 | .73 | 27 | .70 | 24 | 1.23 | 10 | .76 | 16 | .34 | 30 |
| (6) Church Stretton | .89 | 21 | .53 | 11 | .53 | 20 | .36 | 12 | .50 | 17 | .48 | 6 | .93 | 30 | .83 | 22 | .54 | 5 | .73 | 26 | .63 | 14 | .46 | 27 |
| (7) Bitterley .. | .75 | 21 | .45 | 4 | .40 | 21 | .24 | 11 | .37 | 19 | .57 | 8 | .45 | 30 | .89 | 24 | .34 | 8 | .46 | 13 | .46 | 15 | .50 | 30 |
| (8) Chirbury .. | .83 | 21 | .31 | 4 | .35 | 30 | .50 | 12 | .25 | 19 | .56 | 5 | .56 | 30 | .69 | 21 | .35 | 8 | .79 | 26 | .45 | 19 | .42 | 30 |
| (9) Alveley .. | .97 | 21 | .66 | 4 | .38 | 20 | .54 | 11 | .30 | 18 | .42 | 7 | .43 | 31 | .50 | 26 | .29 | 5 | .66 | 10 | .44 | 14 | .54 | 30 |
| (10) Oswestry .. | .80 | 2 | .70 | 10 | .46 | 20 | .28 | 12 | .46 | 20 | .83 | 28 | .44 | 31 | .87 | 27 | .81 | 24 | 1.32 | 10 | .78 | 16 | .27 | 25 |
| (11) Craven Arms .. | .69 | 21 | .50 | 12 | .21 | 20 | .35 | 11 | .69 | 17 | .66 | 29 | .49 | 30 | .75 | 22 | .54 | 5 | .72 | 26 | .65 | 16 | .50 | 27 |
| (12) Diddlebury .. | .81 | 21 | .41 | 11 | .32 | 30 | .54 | 12 | .57 | 17 | .62 | 19 | .54 | 30 | .60 | 22 | .33 | 5 | .83 | 26 | .47 | 14 | .45 | 30 |
| (13) Norton-in-Hales | .75 | 21 | .39 | 4 | .29 | 29 | .27 | 12 | .56 | 17 | 1.09 | 19 | .42 | 30 | .81 | 27 | .38 | 5 | .41 | 26 | .54 | 11 | .47 | 28 |
| (14) Dorrington .. | .94 | 21 | .45 | 4 | .47 | 29 | .62 | 12 | .46 | 17 | 71 | 6 | .39 | 30 | .74 | 23 | .37 | 24 | .70 | 26 | .52 | 14 | .25 | 25 |
| (15) Bromfield .. | .76 | 21 | .49 | 29 | .46 | 20 | .46 | 12 | .33 | 17 | .50 | 29 | .48 | 30 | .74 | 27 | .39 | 24 | .68 | 26 | .71 | 14 | .37 | 26 |
| (16) Oakly Park .. | .79 | 21 | .53 | 29 | .39 | 29 | .48 | 13 | .32 | 17 | .62 | 6 | .50 | 30 | .53 | 27 | .45 | 24 | .63 | 26 | .48 | 15 | .40 | 30 |
| (17) Sansaw .. | .82 | 21 | .34 | 4 | .35 | 20 | .25 | 12 | .24 | 17 | .59 | 6 | .44 | 30 | .54 | 27 | .40 | 24 | .72 | 10 | .48 | 19 | .39 | 28 |
| (18) Cantreyn, Bridgnorth .. | .80 | 21 | .37 | 4 | .29 | 2 | .59 | 12 | .38 | 17 | .79 | 7 | .65 | 30 | .49 | 14 | .26 | 5 | .65 | 10 | .52 | 14 | .34 | 30 |
| (19) Shifnal .. | 1.04 | 21 | .38 | 4 | .28 | 24 | .30 | 12 | .65 | 26 | .66 | 28 | .40 | 30 | .29 | 14 | .60 | 28 | .67 | 10 | .72 | 25 | .50 | 27 |
| (20) Newport .. | .91 | 21 | .45 | 4 | .34 | 20 | .31 | 12 | .33 | 19 | .56 | 29 | .52 | 30 | .44 | 7 | .27 | 5 | .66 | 10 | .43 | 26 | .36 | 30 |
| (21) Whitchurch .. | .65 | 19 | .36 | 10 | .33 | 29 | .30 | 12 | .35 | 19 | 1.06 | 6 | .46 | 31 | .56 | 26 | .32 | 24 | .52 | 10 | .50 | 14 | .29 | 28 |
| (22) Shrewsbury Copthorne .. | | | | | | | | | | | | | | | | | .52 | 24 | .47 | 11 | .41 | 23 | .33 | 27 |
| (23) Fitz Rectory .. | | | | | | | | | | | | | | | | | | | | | | | | |
| (24) Radbrook, Shr'y. | .85 | 21 | .36 | 29 | .37 | 21 | .48 | 12 | .40 | 19 | .43 | 6 | .60 | 30 | .61 | 22 | .48 | 24 | .50 | 10 | .39 | 19 | .30 | 28 |
| (25) Roden .. | .85 | 21 | .35 | 4 | .20 | 4 | .37 | 11 | .37 | 19 | .48 | 7 | .58 | 30 | .61 | 22 | .40 | 5 | .52 | 10 | .42 | 26 | .34 | 30 |
| (26) Shrewsbury Coton Hill .. | .90 | 21 | .29 | 4 | .30 | 21 | .33 | 12 | .29 | 19 | .49 | 8 | .58 | 30 | .60 | 22 | .36 | 24 | .59 | 10 | .33 | 19 | .37 | 30 |

# TABLE No. 4.

## RAINY DAYS.

**A Rainy Day means a day in which at least .01 of rain fell.**

| | JAN. | FEB. | MAR. | APL. | MAY. | JUNE. | JULY. | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) Burwarton .. | 24 | 12 | 17 | 12 | 9 | 18 | 8 | 16 | 8 | 20 | 19 | 9 | 172 |
| (2) Woolstaston .. | 20 | 17 | 18 | 17 | 11 | 20 | 7 | 17 | 9 | 22 | 21 | 15 | 194 |
| (3) Bishop's Castle .. | 22 | 15 | 23 | 12 | 8 | 20 | 8 | 16 | 10 | 23 | 23 | 16 | 196 |
| (4) Totterton .. | 24 | 13 | 20 | 16 | 9 | 20 | 8 | 18 | 8 | 23 | 22 | 14 | 195 |
| (5) Oswestry Reservoir | 26 | 15 | 22 | 19 | 13 | 23 | 10 | 18 | 14 | 22 | 26 | 19 | 227 |
| (6) Church Stretton | 27 | 19 | 21 | 19 | 14 | 21 | 11 | 18 | 13 | 22 | 25 | 20 | 230 |
| (7) Bitterley .. | 22 | 18 | 19 | 17 | 8 | 19 | 10 | 18 | 9 | 20 | 22 | 19 | 201 |
| (8) Chirbury .. | 24 | 14 | 19 | 11 | 10 | 18 | 7 | 17 | 12 | 22 | 21 | 13 | 188 |
| (9) Alveley .. | 21 | 15 | 16 | 14 | 9 | 17 | 12 | 18 | 9 | 23 | 21 | 15 | 190 |
| (10) Oswestry .. | 26 | 16 | 21 | 17 | 10 | 20 | 9 | 17 | 12 | 21 | 23 | 16 | 208 |
| (11) Craven Arms .. | 23 | 16 | 21 | 14 | 11 | 17 | 7 | 15 | 10 | 21 | 24 | 19 | 198 |
| (12) Diddlebury .. | 25 | 15 | 19 | 16 | 12 | 21 | 10 | 15 | 9 | 23 | 25 | 20 | 210 |
| (13) Norton-in-Hales.. | 30 | 19 | 26 | 19 | 12 | 22 | 17 | 23 | 18 | 28 | 23 | 22 | 259 |

## TABLE No. 4—continued.

| | JAN. | FEB. | MAR. | APL. | MAY. | JUNE. | JULY. | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (14) Dorrington .. | 27 | 21 | 20 | 19 | 16 | 22 | 10 | 21 | 21 | 27 | 28 | 18 | 250 |
| (15) Bromfield .. | 29 | 17 | 22 | 16 | 12 | 20 | 9 | 18 | 12 | 23 | 24 | 16 | 218 |
| (16) Oakly Park .. | 22 | 14 | 16 | 18 | 8 | 18 | 9 | 15 | 9 | 23 | 23 | 15 | 190 |
| (17) Sansaw .. | 23 | 13 | 17 | 13 | 10 | 21 | 13 | 19 | 13 | 21 | 21 | 18 | 202 |
| (18) Cantreyn, B'north | 23 | 15 | 16 | 15 | 12 | 21 | 9 | 15 | 9 | 22 | 18 | 14 | 189 |
| (19) Shifnal .. | 18 | 10 | 18 | 15 | 10 | 16 | 11 | 13 | 10 | 23 | 18 | 16 | 178 |
| (20) Newport .. | 24 | 14 | 19 | 12 | 11 | 22 | 14 | 18 | 11 | 22 | 20 | 18 | 205 |
| (21) Whitchurch .. | 25 | 13 | 16 | 14 | 10 | 24 | 12 | 19 | 10 | 23 | 19 | 18 | 203 |
| (22) Shrew'y Copthorne | — | — | — | — | — | — | — | — | 5 | 18 | 22 | 15 | — |
| (23) Fitz .. | 22 | 16 | 21 | 14 | 11 | 19 | 11 | 17 | 11 | 22 | 21 | 14 | 199 |
| (24) Radbrook, Shrews'y | 24 | 14 | 21 | 17 | 13 | 20 | 12 | 16 | 10 | 22 | 22 | 17 | 208 |
| (25) Roden .. | 25 | 14 | 20 | 12 | 10 | 21 | 13 | 19 | 10 | 24 | 22 | 17 | 207 |
| (26) Shrew'y, Coton Hill | 25 | 11 | 17 | 14 | 10 | 19 | 10 | 16 | 10 | 20 | 20 | 16 | 188 |
| | | | | | | | | | | | | Total for year .. | 5105 |
| | | | | | | | | | | | | Average for year .. | 204 |

# TABLE No. 5.

## TEMPERATURES—HIGHEST AND LOWEST, WITH DATES.

### HIGHEST TEMPERATURE.

| | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (2) Woolstaston ... | 52 6-21 | 55 15 | 60 3 | 74 26 | 75 28 | 72 13 | 81 15 | 76 11 | 75 5 | 63 8 | 59 12 | 50 24 |
| (11) Craven Arms ... | 55 21 | 57 15 | 61 4 | 73 26 | 71 6 | 75 13 | 83 15 | 77 5 | 76 4 | 66 8 | 63 11 | 55 1 |
| (13) Norton-in-Hales | 52 21 | 55 16 | 57 20 | 70 26 | 77 28 | 74 13 | 78 14 | 77 11 | 73 5 | 62 11 | 59 12 | 53 25 |
| (16) Oakly Park ... | 55 6 | 59 7 | 62 3 | 73 27 | 76 27-28 | 74 14 | 83 15 | 74 11 | 75 4-5 | 63 8 | 60 12 | 54 1 |
| (17) Sansaw ... | 51 21 | 53 15-16 | 58 4 | 72 26 | 77 30 | 74 3-4 | 79 14-15 | 76 11 | 74 5 | 62 8 | 58 12 | 51 1-25 |
| (18) Cantreyn, B'rth. | 53 5-6 | 56 15 | 62 4 | 76 26 | 83 28 | 78 3 | 89 15 | 83 5 | 80 5 | 65 8 | 60 12 | 52 1 |
| (19) Shifnal ... | 64 9 | 66 18 | 76 5 | 84 27 | 90 31 | 90 5 | 89 16 | 98 4 | 72 11 | 66 18 | 65 11 | 61 24 |
| (25) Roden ... | 56 7 | 56 7 | 60 4 | 72 26 | 74 30 | 71 3 | 85 15 | 75 5 | 76 4-5 | 64 8 | 60 12 | 57 8 |

### LOWEST TEMPERATURE.

| | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (2) Woolstaston ... | 29 26-30 | 29 27 | 21 12 | 28 16 | 35 8-9 | 40 14 | 46 28 | 47 1 | 35 29 | 37 13 | 30 8 | 22 14 |
| (11) Craven Arms ... | 16 1 | 23 27 | 15 13 | 23 20 | 29 9 | 33 17 | 39 4 | 40 31 | 29 23 | 26 1 | 20 10 | 12 15 |
| (13) Norton-in-Hales | 25 4 | 28 20 | 19 13 | 24 17 | 28 10 | 34 17 | 41 8 | 42 31 | 30 23 | 25 1 | 23 4 | 17 15 |
| (16) Oakly Park ... | 17 1 | 23 20-27 | 16 13 | 23 17 | 25 10 | 30 17 | 34 17 | 40 5-16-19 | 28 20 | 23 1 | 20 10 | 13 15 |
| (17) Sansaw ... | 28 18 | 28 29 | 24 12 | 29 17 | 34 10 | 39 17 | 45 4-29 | 46 30-31 | 33 30 | 32 23 | 26 9 | 22 15 |
| (18) Cantreyn, Brth. | 25 17 | 26 19 | 22 12 | 26 16-17 | 27 8-9 | 29 16 | 39 3-28 | 40 18 | 26 30 | 29 22 | 22 9 | 21 13 |
| (19) Shifnal ... | 26 9 | 30 20 | 22 13 | 30 6 | 28 10 | 32 17 | 41 4 | 41 21 | 31 26 | 27 1 | 24 10 | 23 14 |
| (25) Roden ... | 23 1 | 25 20 | 21 13 | 26 17 | 28 9-10 | 35 3-17 | 39 4 | 40 19 | 28 23 | 25 1 | 20 9 | 18 15 |